



Third Generation Partnership Project

DRAFT MEETING REPORT v1.1.0

3GPP TSG-CN3 Meeting # 17

Puerto Rico, USA.
14th - 18th May 2001



Hosted by

N.A Friends of 3GPP

Chairman: Norbert Klehn, Siemens AG. norbert.klehn@icn.siemens.de
Vice Chairman: None.
MCC Support: David Boswarthick, ETSI MCC. david.boswarthick@etsi.fr

Table of contents

1	Opening of the Meeting.....	4
2	Approval of the Agenda.....	4
3	Registration of documents.....	4
4	Reports.....	5
4.1	CN3#16 Meeting Report, (Sophia)	5
4.2	Reports from Last CN Meeting.....	5
4.3	Reports from Other Groups.....	6
4.4	IPR Disclosures	6
5	Liaisons	6
5.1	Status of Outgoing Liaisons from CN3	6
5.2	Received Liaisons.....	7
6	Administrative issues.....	9
6.1	Project Co-ordination.	9
6.2	Terms of Reference / Future Work	10
6.3	Next meetings, allocation of hosts.....	10
7	Release 99 and earlier:	11
7.1	CS Bearers	11
7.2	Multimedia	12
7.3	GPRS	12
7.4	Technical Enhancements & Improvements (TEI).....	13
8	Release 4:.....	14
8.1	CS Multimedia Swap& Fallback	14
8.2	RT Facsimile [FAX-RT]	14
8.3	Global Text telephony [GTT-IW].....	14
8.4	Bearer Independent Circuit-switched Core Network [CSSPLIT] for Rel-4.	14
8.5	Other Work Items for Rel-4.	17
8.6	T.E.I for Rel-4.....	17
9	Release 5:.....	18
9.1	Interworking between IM Subsystems with IP [IMS-CCR-IWIP].....	18
9.2	Interworking between IM Subsystems and CS [IMS-CCR-IWCS]	20
9.3	QoS for IMS	21
9.4	Other Rel-5 Work Items	23
10	Joint SA2_CN3 and others Joint Meeting on QoS	24
10.1	Joint SA2/CN3 Meeting on QoS.....	24
10.2	Joint Session with CN1 on 23.218.....	26
10.3	Joint Session with CN1 on 24.228.....	27
11	Output of CN3#17 Meeting.....	29

11.1	Work Items.....	29
11.2	Liaison Statements	29
11.3	Change Requests	29
11.4	New TRs / TSs.....	29
11.5	Other.....	29
11.6	Summary of CN3#17 Action Points	30
12	Any other business.....	30
13	Close of meeting	30
Annex A: List of CN3 Meeting Participants		31
Annex B: List of documents		32
Annex C: Access to 3GPP documents.....		35
	3GPP email lists:.....	35
	Email archives:	35
	Meeting calendar:.....	35
	Documents on the server:	35
History	36	

1 Opening of the Meeting

The 17th CN3 meeting took place from 14th - 18th May in Puerto Rico USA.

Stephen Hayes welcomed the CN3 delegates to Puerto Rico on behalf of NA Friends of 3GPP, and explained the logistical details for the rest of the week.

The CN3 Chairman Mr. Norbert Klehn, opened the meeting at 09:00 on Monday 14th. He set the objectives for the meetings as follows:

- **Move forward with work on Rel-5**
- **Start Stage 3 work on QoS**

2 Approval of the Agenda

N3-010175: CN3#17 Draft Meeting Agenda. Presented by the CN3 Chairman.

CONTENT: Contains the draft Agenda for CN3#17 Meeting.

DISCUSSION: Norbert introduced the agenda document and outlined the schedule of the meeting for the rest of the week.

There few a number of Joint Sessions also planned for the week:-

Wed, May 16 14:00 - 23.218: CN1 + any other interested WGs

16:00 - 24.228: CN1 + any other interested WGs

Thu, May 17 14:00 - QoS: CN3/SA2 QoS Drafting + any other interested WGs

18:00 - SIP+: SA2/Interested WGs

No Scheduled CN3_CN4 Joint Session on BICC

RESULT: The Agenda was **APPROVED**.

3 Registration of documents

The meeting documents are available on the 3GPP server:-

ftp://ftp.3gpp.org/tsg_cn/WG3_interworking/TSGN3_17_PuertoRico/Docs/

N3-010176: Allocation of documents to Agenda items for CN3#17. Presented by CN3 Chairman.

CONTENT: Shows the allocation of meeting documents to agenda items.

DISCUSSION: It was agreed that it was not a requirement for Norbert to update and distribute his notes during the meeting, as delegates should keep track of changes individually. However Norbert agreed to produce a final version on Friday (without notes), only showing the revision of documents.

Document 187 was moved to agenda item 8.4 to be discussed along with the Alcatel documents and document 210 was added to agenda item 9.2.

Norbert also gave a reminder to the CN3 delegates that contributions to CN3 meetings should be made available at least 4 working days in advance of the meeting in order to allow all delegates sufficient time to study them.

All delegates are requested to make good efforts to have the documents available by this time

RESULT: The allocation of documents was **APPROVED**.

N3-010211: Updated Allocation of documents to Agenda items for CN3#17. Presented by CN3 Chairman.

CONTENT: Shows the final allocation of meeting documents to agenda items as of the end of the meeting.

RESULT: The allocation of documents was **NOTED**.

4 Reports

4.1 CN3#16 Meeting Report, (Sophia)

The meeting report can be found at:

ftp://ftp.3gpp.org/tsg_cn/WG3_interworking/TSGN3_16_Sophia/Report/

N3-010177: CN3#16 Draft Meeting Report. Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the CN3#16 held in Sophia.

The CN3#16 report was completed and distributed at the end of the meeting. There was the usual 2-week deadline for comments by e-mail, and these comments have been integrated in the revised meeting report presented in this document.

DISCUSSION: Correcting of delegates mailing details. Correcting of tdoc numbering inversion.

RESULT: The document was **REVISED to 0212**

⇓ **REVISED** ⇓

N3-010212: Rev. CN3#16 Draft Meeting Report. Presented by David Boswarthick, MCC.

RESULT: The document was **APPROVED.**

Review of action items from CN3#16:

ACTION	OWNER	DESCRIPTION	TARGET DATE	NOTES	STATUS
N3_14_04	Masahiko	Ensure a contribution on future of SMWOP is made to the SA1 meeting, report back to CN3	before CN3#15	SMWOP deleted at NP#11	CLOSED
N3_15_07	Masahiko	Create a new WID for Service Modification WITH Pre-notification and present it to CN3#16 - this will be based on N3-010049	before CN3#16	CLOSE ACTION DUE TO LACK OF INPUT	CLOSED
N3_16_01	DAB	feed back the changes to the 3GPP project plan to Alain Sultan	before CN#11		DONE
N3_16_02	DAB	feed back the changes to the specification list to JMM	before CN#11		DONE
N3_16_03	DAB	Update CN3 election results to 3GPP web server	before CN#11		DONE
N3_16_04	All	Check the removal of interworking between IMS and CS networks for CS multimedia services on 24.228 as result of LS in N3-010116	before CN3#17	Will be seen in joint session with CN1	OPEN

4.2 Reports from Last CN Meeting

N3-010178: NP#11 Draft Meeting Report. Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the NP#11.

RESULT: The document was **NOTED**

N3-010179: SA#11 Draft Meeting Report. Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the SA#11.

RESULT: The document was **NOTED**

N3-010180: Status Report from CN3 toCN Plenary. Presented by CN3 Chair.

CONTENT: Contains the CN3 status report, as presented by the CN3 chair to NP#11.

RESULT: The document was **NOTED**

- N3-010181: Presentation of CN#11 to SA#11 Meeting.** Presented by David Boswarthick, MCC.
CONTENT: Contains the slide presentation of the main results from CN#11 meeting as presented to SA by the CN chair.
RESULT: The document was **NOTED**
- N3-010186: Advice to CN3 following NP#11.** Presented by CN3 Chair.
CONTENT: Contains the email advice sent to CN3 by the CN3 chair containing details of the decisions taken at NP#11.
RESULT: The document was **NOTED**

4.3 Reports from Other Groups

No Input to this agenda item.

4.4 IPR Disclosures

The Chairman reminded delegates of the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.

The delegates were invited :

- to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of TSG_CN and the CN working groups
- to notify the Director-General or chairman of their respective Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms

5 Liaisons

5.1 Status of Outgoing Liaisons from CN3

Status Check on LSs sent from Previous CN3 Meetings

T-DOC	Subject	To	Cc	Attachment	Sent	Status
N3-000486	Updated lu UP CR on selection of PDU Type 1 for NT CS data services	R3	S4	N3-000424, 0425, 0426, 0427	07/09/00	Seen at R3#16 and S4#15
N3-000607	CS Bearers	SA1	RAN3	None	15/11/00	Seen at R3#19 and S1#11
N3-000610	RTCP responsibility	CN1	-	None	16/11/00	Seen at N1#15
N3-010088	requesting clarification on interworking between IM domain and CS networks	SA, SA1	SA2, CN1	None	23/01/01	Seen by SA1#11

5.2 Received Liaisons

N3-010188: **LS IN from RAN3 on Assumptions made by N3 for the new TS 29.415 "Core Network Nb User Plane protocols [R3-011090].** Presented by Thomas Belling of Siemens

CONTENT: Relates to the relationship between 25.415 and 29.415.

RAN3 would like to emphasise the good communication needed between the two groups that share the same technology.

DISCUSSION: RAN3 now agree with the CN3 understanding regarding "the through-connection on the TNL level" and "through-connection over the UP"

CN3 will keep RAN3 informed of all future changes to 29.415 as appropriate.

The LS contains a CR to 25.415 that implements enhancements to TS 25.415 for the TrFO. There is a related CR being presented to CN4 this week, and Thomas will keep CN3 informed of progress on this work.

RESULT: The document was **NOTED**.

N3-010189: **LS IN from SA1 on Basic and Advanced Service Examples [S1-010271].** Presented by Johanna Wilde of Motorola.

CONTENT: Contains a LS from SA1 that proposed a way forward to standardize the basic and advanced services for Rel-5.

It is proposed that the SA1 works together with SA2, T2, T3, CN1, CN3, CN4, CN5 and other working groups as appropriate, and believes that the following steps should now be followed:-

- review the list of examples services
- review example services for validity, and consider potential addition of other example services
- refine the example services into capabilities
- identify all the required capabilities to ensure interoperable support of the example services
- document the capabilities requirements
- the work on identification of capabilities to support the example services shall be documented in a (new or existing) report or specification
- inform TSG-SA and other working groups

DISCUSSION: Norbert invited CN3 delegates to study these examples at their leisure and to propose comments to SA1 either via their SA1 colleagues or to the CN3 meeting

RESULT: The document was **NOTED**.

N3-010206: **LS IN from SA2 on IMS Service Provision [S2-010798].**

CONTENT: In this document relates to Provision for the IM Subsystem:

Besides the Cx interface SA2 agreed on a single standardised protocol to be supported by the S-CSCF for service control.

DISCUSSION: This decision has no impact on CN3.

RESULT: The document was **NOTED**.

N3-010207: LS IN from CN Plenary on Deletion of WIs [NP-010211].

CONTENT: Contains the LS to SA from CN plenary describing the deletion of the CN3 work items:

- Service modification without pre-notification (WI code 1359);
- Circuit switched multimedia swap and fallback (WI code 1655);
- IWF at the edge (CN border) (WT 2205).

This document also identifies linkages to other Work Items that are under the responsibility of other working groups (example SA1, SA2 and T1, T2), and asks SA and the groups consider the dependencies.

DISCUSSION: CN3 note this document and await information regarding the deletion of the corresponding Work items in other groups.

RESULT: The document was **NOTED**.

N3-010208: LS IN from RAN3 on Optimised IP speech and header removal support in GERAN [R3-010890].

CONTENT: The document contains the responses by RAN3 to questions from SA2 and GERAN in Optimised IP speech and header removal support in GERAN.

DISCUSSION: No impact on CN3

RESULT: The document was **NOTED**.

N3-010209: LS IN from CN1 on GPRS work covering break in radio transmission” [N1-010582].
Presented by *Daisuke Yokota of Lucent*.

CONTENT: The joint meeting of SA2 and CN1 identified an item within 23.228 which requires enhancement of a number of GPRS specifications under the control of various working groups (SA2, CN4).

It is desirable that the various work items are updated to reflect the required work, which appears to impact 23.060, GTP and possibly other documents.

It is also desirable that appropriate changes are progressed, and we would appreciate that the appropriate changes are progressed by SA2 in 23.060 in order to lead this work.

DISCUSSION: Daisuke mentioned that this has no impact in CN3s GPRS specifications TS 29.061 and 27.060. However the rapporteur should also check this.

Johanna Wilde will do this for 29.061. However there is presently no rapporteur for 27.060. This document will also be presented to the joint CN1 session.

It was decided in the joint meeting on Wednesday that CN4 will deal with this LS on behalf of CN.

RESULT: The document was **NOTED**.

6 Administrative issues

6.1 Project Co-ordination.

N3-010190: **Status list of CN3 Specifications.** Presented by David, MCC.

CONTENT: Contains the list of CN3 specifications following CN#11, including version and rapporteur information.

DISCUSSION: Rune Werner Wiik mentioned that in 23.002 SA2 are referring to 23.054 in their Rel-4 and Rel-5 specifications. However CN3 have not upgraded 23.054 to Rel-4 and Rel-5. Hence there is a mis-match between references.

Also 23.002 uses 23.054 in section 2, References, but 03.54 in the text itself. See sections 4a.2 and 6a.2.1

Norbert further explained that the CN3 decision not to upgrade 23.054 for Rel-4 and Rel-5 was based upon the fact that 23.054 is considered to be not up to date for UMTS and the shared interworking function only works for GSM.

Johanna Wilde of Motorola kindly offered to be rapporteur 07.60 and 27.060 in addition to 09.61 and 29.061.

△ **[ACTION N3_17_01 - David will inform the rapporteur of 23.002 of the mismatch in references related to 23.054.**

△ **[ACTION N3_17_02] - David will feed back the changes to the 3GPP specifications manager**

RESULT: The document was **REVISED to 0219.**

↓ **REVISED** ↓

N3-010219: **Rev. Status list of CN3 Specifications.** Presented by David, MCC.

CONTENT: Contains the list of CN3 specifications following CN#11, including version and rapporteur information.

RESULT: The document was **NOTED.**

N3-010191: **3GPP Project Plan.** Presented by David, MCC.

CONTENT: Contains the latest version of the 3GPP project plan, as approved at SA#11 plenary including several updates from WGs.

DISCUSSION: The project plan was discussed at the end of the meeting, in order to allow progress from the meeting to be reflected in the update. The Work Items where CN3 have responsibilities were verified on-line.

△ **[ACTION N3_17_03] - David will feed back the changes to the 3GPP project plan to Alain Sultan**

RESULT: The document was **REVIEWED.**

6.2 Terms of Reference / Future Work

6.3 Next meetings, allocation of hosts

Meeting	Date	Location, Host	Comments
TSG-CN#12	13 th – 15 th June 2001	Stockholm, Sweden - Ericsson	
TSG-CN3#18	9 th – 13 th July 2001	Dresden, Germany - Manesmann	Co-located CN1,CN2,CN3,CN4
TSG-CN#10	19 th – 21 st Sept 2001	China - Lucent	
TSG-CN3#19	15 th – 19 th Oct 2001	Brighton UK, Vodafone & BT	Co-located CN1,CN2,CN3,CN4
TSG-CN3#20	26 th – 30 th Nov 2001	Unknown, NA Friends	Co-located CN1,CN2,CN3,CN4
TSG-CN#14	12 th – 14 th Dec 2001	Japan, TTC	Deadline for Completion of Rel-5

N3-010230: Meeting Dates for 2002. Presented by *Norbert the CN3 Chairman*.

CONTENT: Contains the proposed CN WGs meeting dates for 2002.

DISCUSSION: It has been agreed by CN leadership to have co-located CN WGs meetings at least for the 1st half of 2002.

It was mentioned that there is a proposal to have only 3 TSG Plenaries in 2003. This is still under discussion.

There is one host allocated for 2002, (Sonera - Finland), and Norbert invited delegates to consider hosting meetings for the CN working groups for next year.

Rune Werner Wiik raised concerns about the date 16/17 May that is a National holiday in Norway.

RESULT: The document was **NOTED**.

7 Release 99 and earlier:

NOTE: R99 and earlier releases have been Functionally Frozen.

Only CAT F (essential correction) and CAT A (corresponds to a correction in an earlier release) CRs are allowed for these Releases. The subcategories for CAT F CRs should be considered when agreeing essential CRs.

7.1 CS Bearers

N3-010196: CR to 23.910 v3.4.0 " Connection models for CSD and editorial changes ". Presented by *Hans-Henrik Veisner of Condat*.

CONTENT: Contains **(CAT C)** CR that specifies the connection model for T-CSD for R99.

DISCUSSION: CN3 agreed that this CR should be classified as a correction (i.e. CAT F not CAT C).

Juha Räsänen mentioned that the term 'Bit transparent' has been removed from the CN3 specifications. It was agreed to remove the reference to 'Bit' transparency in this Change request.

There was some problem with the Figure numbering - it was agreed to change the existing Figure 2 to Figure 4 and change any references to that figure in the text.

Norbert asked that the connection model for Non transparent data be added to section 4.1 to make the changes complete and consistent.

Norbert mentioned the requirement in UMTS for connection models showing the situation after handover. Hans said he was not yet able to provide this information, but he will study this.

RESULT: The document was **REVISED to 0220**.

⇓ **REVISED** ⇓

N3-010221: Rev. CR to 23.910 v3.4.0 " Connection models for CSD and editorial changes ". Presented by *Hans-Henrik Veisner of Condat*.

CONTENT: Contains **(CAT F)** CR that specifies the connection model for T-CSD for R99.

DISCUSSION: Propose not to include all of the specification in the change - only the text that is changed. Also 21.905 is a TR and not a TS.

Suggested to refer to Refer to RA0 in section 6.2 whilst avoiding referencing to RA0 frames.

Also the usage of the term **will** to be replaced by **shall** in 6.2.

RESULT: The document was **REVISED to 0231**.

⇓ **REVISED** ⇓

N3-010231: Rev. CR to 23.910 v3.4.0 " Connection models for CSD and editorial changes ". Presented by *Hans-Henrik Veisner of Condat*.

RESULT: The document was **AGREED**.

N3-010220: CR to 23.910 v.4.0.? " Connection models for CSD and editorial changes ". Presented by *Hans-Henrik Veisner of Condat*.

RESULT: The document was **AGREED**

N3-010194: CR to 27.001 v3.8.1 " Essential Correction ". Presented by *Rune Werner Wiik of Ericsson*.

CONTENT: Contains **(CAT F)** CR that provides essential corrections to 27.001.

DISCUSSION: Comments that the title needs to be more specific. Also the ME/UE box needs to be checked.

RESULT: The document was **REVISED to 0222**.

⇓ **REVISED** ⇓

N3-010222: **Rev. CR to 27.001 v3.8.1 " Corrections of PLMN BC attributes "**. Presented by *Rune Werner Wiik of Ericsson*.
CONTENT: Contains **(CAT F)** CR that provides essential corrections to 27.001 for R99
DISCUSSION: Due to the fact CN3 has deleted the term bit transparent from their specifications, it was agreed to replace the title bit transparent in section B1.3.1.7 with synchronous transparent.
RESULT: The document was **REVISED to 0222**.

⇓ **REVISED** ⇓

N3-010232: **Rev. CR to 27.001 v3.8.1 " Corrections of PLMN BC attributes "**. Presented by *Rune Werner Wiik of Ericsson*.
CONTENT: Contains **(CAT F)** CR that provides essential corrections to 27.001 for R99
RESULT: The document was **APPROVED**.

N3-010195: **CR to 27.001 v4.3.0 " Essential Correction "**. Presented by *Rune Werner Wiik of Ericsson*.
CONTENT: Contains **(CAT A)** CR that corrects wrong combinations of PLMN BC attributes
DISCUSSION: The same comments as those made to 0194 apply.
RESULT: The document was **REVISED to 0223**.

⇓ **REVISED** ⇓

N3-010223: **Rev. CR to 27.001 v4.3.0 " Essential Correction "**. Presented by *Rune Werner Wiik of Ericsson*.
CONTENT: Contains **(CAT A)** CR that corrects wrong combinations of PLMN BC attributes
DISCUSSION: Same comments as those made to 0222 apply to the Rel-4 CR.
RESULT: The document was **REVISED to 0223**.

⇓ **REVISED** ⇓

N3-010233: **Rev. CR to 27.001 v4.3.0 " Essential Correction "**. Presented by *Rune Werner Wiik of Ericsson*.
CONTENT: Contains **(CAT A)** CR that corrects wrong combinations of PLMN BC attributes
RESULT: The document was **APPROVED**.

7.2 Multimedia

No Input to this agenda item.

7.3 GPRS

N3-010192: **CR to 29.061 v3.5.0 " Set the use of PPP between the MT and TE as an option when interworking with MIPv4"**. Presented by *Laurent Andriantsiferana of Cisco*.
CONTENT: Contains **(CAT F)** CR that sets PPP as an optional layer two protocol between the MT and the TE, when interworking with MIPv4
DISCUSSION: Following comments from Tomas Holmström of Ericsson [by e-mail], it was agreed to add a note clarifying that this is only *one* solution and others may exist. Also, as this is a R99 CR there is a requirement to add some text for 'consequences if not approved' section.
RESULT: The document was **REVISED to 0224**.

⇓ **REVISED** ⇓

- N3-010224:** **Rev. CR to 29.061 v3.5.0 " Set the use of PPP between the MT and TE as an option when interworking with MIPv4".** Presented by *Laurent Andriantsiferana* of *Cisco*.
- CONTENT:** Contains **(CAT F)** CR that sets PPP as an optional layer two protocol between the MT and the TE, when interworking with MIPv4
- DISCUSSION:** There were some minor formatting errors in the CR and it was revised to give a clean version
- RESULT:** The document was **REVISED to 0239.**
- ⇓ **REVISED** ⇓
- N3-010239:** **Rev. CR to 29.061 v3.5.0 " Set the use of PPP between the MT and TE as an option when interworking with MIPv4".** Presented by *Laurent Andriantsiferana* of *Cisco*.
- RESULT:** The document was **AGREED.**
- N3-010241:** **CR to 29.061 v4.0.0 " Set the use of PPP between the MT and TE as an option when interworking with MIPv4".** Presented by *Laurent Andriantsiferana* of *Cisco*.
- CONTENT:** Contains **(CAT A)** CR that sets PPP as an optional layer two protocol between the MT and the TE, when interworking with MIPv4
- RESULT:** The document was **AGREED.**
- N3-010193:** **CR to 29.061 v3.5.0 " Clarifications on the non-transparent access mode ".** Presented by *Laurent Andriantsiferana* of *Cisco*.
- CONTENT:** Contains **(CAT F)** CR that provides clarifications on the non-transparent access mode.
- DISCUSSION:** Johanna suggested primary and subsequent PDP context be replaced by the term primary and subsequent PDP context activation '*procedure*'. Also, as this is a R99 CR there is a requirement to add some text for 'consequences if not approved' section.
- RESULT:** The document was **REVISED to 0225.**
- ⇓ **REVISED** ⇓
- N3-010225:** **Rev. CR to 29.061 v3.5.0 " Clarifications on the non-transparent access mode ".** Presented by *Laurent Andriantsiferana* of *Cisco*.
- CONTENT:** Contains **(CAT F)** CR that provides clarifications on the non-transparent access mode.
- DISCUSSION:** There were some minor formatting errors in the CR and it was revised to give a clean version
- RESULT:** The document was **REVISED to 0240.**
- ⇓ **REVISED** ⇓
- N3-010240:** **Rev. CR to 29.061 v3.5.0 " Clarifications on the non-transparent access mode ".** Presented by *Laurent Andriantsiferana* of *Cisco*.
- RESULT:** The document was **AGREED.**
- N3-010242:** **CR to 29.061 v4.0.0 " Clarifications on the non-transparent access mode ".** Presented by *Laurent Andriantsiferana* of *Cisco*.
- CONTENT:** Contains **(CAT A)** CR that provides clarifications on the non-transparent access mode.
- RESULT:** The document was **AGREED.**

7.4 Technical Enhancements & Improvements (TEI)

No Input to this agenda item.

8 Release 4:

NOTE: Release 4 has been Functionally Frozen.

Only CAT F (essential correction) and CAT A (corresponds to a correction in an earlier release) CRs are allowed for these Releases. The subcategories for CAT F CRs should be considered when agreeing essential CRs.

8.1 CS Multimedia Swap& Fallback

➤ CN3 consider their work to this Work Item as 100% Complete for Rel-4.

No contributions to this agenda item.

8.2 RT Facsimile [FAX-RT]

➤ CN3 consider their work to this Work Item as 100% Complete for Rel-4. The exercise of removing FAX NT for GSM for Rel-4 is also considered complete.

No contributions to this agenda item.

8.3 Global Text telephony [GTT-IW]

➤ STATUS of GTT-IW - CN3 consider their work to this Work Item as 100% Complete (for CN3) - Existing solution has no requirements for CN3

No contributions to this agenda item.

8.4 Bearer Independent Circuit-switched Core Network [CSSPLIT] for Rel-4.

➤ CN3 consider their work to this Work Item as 100% Complete

N3-010197: **MIME Registration of lu UP.** Presented by *Thomas Belling* of Siemens.

CONTENT: The document presents some information regarding the registration of lu UP with IANA and includes the following suggestions by Siemens:-

Suggestions:

- IU FP shall be registered as a MIME type within the vendor tree at IANA. 3GPP shall take the position of the vendor. A registration of lu FP in the IETF namespace would require a formal approval of lu FP by the IETF.
- CN3 entitles Siemens to register IU FP in the name of 3GPP, using the IANA MIME registration form in the Appendix.
- The name of the dynamic payload type for lu FP introduced in Section 6.3.3.5 of [4] shall be changed to "VND.3GPP.IUFP" in order to satisfy the corresponding requirements.

DISCUSSION: David Boswarthick of MCC suggested that this issue be raised at the CN leaders meeting in order to have a coordinated approach by all the CN working groups.

Norbert Klehn agreed to present this issue to the CN Leaders meeting on Tuesday evening.

David Sanders of Vodafone asked why we need to register IU FP when it is already used in TS 25.415. Thomas replied that this is merely a formality but agreed that RAN3 (the owners of TS 25.415) need to be informed of this issue.

Norbert clarified that this 'unique identifier' is to be used only in the 3GPP world. Thomas agreed that this identifier will most probably not be re-used outside of the 3GPP world but it would be cleaner to register it to ensure 3GPP have exclusivity.

CN3 is the only group that need this unique ID for their work - although it has some impact on RAN3 and they will be informed.

There was also concern about using the 'Vendor' class for 3GPP.

It was agreed to add some more clear justification as to why we to register this MIME type as well as the impacts upon RAN3.

RESULT: The document was **REVISED to 0218**.

↓ **REVISED** ↓

N3-010218: **Rev. MIME Registration of lu UP.** Presented by *Thomas Belling of Siemens*.

CONTENT: Adds an additional section on the motivation for having the MIME registration.

DISCUSSION: Norbert confirmed that the CN leaders meeting agreed with the proposed registration, and should Thomas have any questions with the process of registering the MIME type he should contact Ian Park who has some experience of this.

RESULT: The document was **NOTED**.

N3-010198: **CR to 29.414 v4.0.0 " Editorial clarifications and IANA registration "**. Presented by *Thomas Belling of Siemens*.

CONTENT: Contains **(CAT F)** CR that resolves the issues of Ambiguity in formulation, IANA registration of luFP MIME type in 29.414 for Rel-4.

DISCUSSION: There were some concerns on using the string VND.3GPP.IUFP/16000 before the IANA registration . However Thomas felt that this was not a major risk and the CR could be approved as is.

Also David of MCC took the opportunity to remind Thomas and the other CN3 delegates to always use the correct WORK ITEM CODE on the CR cover page. These codes are available on the 3GPP work plan.

RESULT: The document was **AGREED**.

N3-010187: **LS IN from RAN3 on Protocol Stack for IP based lu-cs [R3-011301]**. Presented by *Thomas Belling of Siemens*.

CONTENT: In this document RAN3 ask CN3 to provide information about the reasoning behind the selection of an RTP/UDP/IP protocol stack for the IP transport option on Nb.

DISCUSSION: The response to this LS is given in N3-010203 and 0202

RESULT: The document was **NOTED**.

N3-010202: **RTP versus GTP usage on Nb (and lu).** *Tony Huynh-Quang of Alcatel*.

CONTENT: This Tdoc aims at:

Discussing the relative merits of RTP and GTP as transport protocol for the CS domain framing protocol (i.e. lu UP as defined in 25.415) in case of the IP transport option on Nb.

Proposing an answer to the incoming LS (R3-011301 " LS to CN3 on "Protocol Stack for an IP based lu-cs") from RAN3 in which they " ask CN3 to provide information about the reasoning behind the selection of an RTP/UDP/IP protocol stack for the IP transport option on Nb "

The conclusion of this document is that CN3 retain the existing working assumption as expressed in 29.414 and to send a LS back to RAN3. A proposal for this LS is given in Tdoc N3-010203.

DISCUSSION: Thomas Belling had some comments to the discussion document.

David Sanders asked why the comparison between RTP and GTP is made in this document. when this has already been done in a document by Ericsson in CN3#14 meeting. Tony explained that this comparison is simply made to give justification as to why CN3 have chosen RTP.

RESULT: The document was **NOTED**.

- N3-010203:** **[DRAFT] Liaison Statement on "Protocol Stack for an IP based lu-cs"**. Presented by *Tony Huynh-Quang of Alcatel*.
- CONTENT:** This is the response to RAN3 that replies to their questions on the reasoning behind the selection of an RTP/UDP/IP protocol stack for the IP transport option on Nb. [as raised in R3-011301].
- DISCUSSION:** This document required some modifications to incorporate the comments from Thomas and the contents of Ericsson's original document.
- RESULT:** The document was **REVISED to 0229**.
- N3-010229:** **Liaison Statement on "Protocol Stack for an IP based lu-cs"**. Presented by *Tony Huynh-Quang of Alcatel*.
- RESULT:** The document was **APPROVED**
- N3-010214:** **CR 006 to 29.232 v4.0.0 " Clarifications in 3GPP package "**. Presented by *Thomas Belling of Siemens*.
- CONTENT:** Contains a **(CAT D)** CR that renames the *Initialisation Direction* property as well as providing additional clarifications to TS 29.323 for Rel-4.
- DISCUSSION:** This specification is under the control of CN4 and is presented to CN3 for information and comments.
- Johanna Wilde asked if the changes in section 15.1.1 would require code modifications. Thomas replied that there will be no requirement to change codes if the implementations have been made correctly in accordance to the specification.
- Also this change is a correction and not an editorial modification and therefore the CAT should be F and not D.
- David Sanders commented to the terms 'active and passive' and suggested the term 'direction'. David and Thomas will discuss this before the presentation of the CR to CN4.
- RESULT:** The CR was **SUPPORTED by CN3**.
- N3-010213:** **CR 023 to 23.153 v4.1.0 " Clarifications in 3GPP package "**. Presented by *Thomas Belling of Siemens*.
- CONTENT:** Contains a **(CAT F)** CR that renames the *Initialisation Direction* property as well as providing additional clarifications to TS 23.153 for Rel-4.
- DISCUSSION:** Relates to the CR in **N3-010214**. Also the term Fb UP is used in this CR and it is not sure if this is approved terminology within 3GPP.
- RESULT:** The CR was **SUPPORTED by CN3**.
- N3-010215:** **Discussion Document on In band FP UP version negotiation and out-of-band version negotiation**. Presented by *Thomas Belling of Siemens*.
- CONTENT:** Presentation on Inband FP UP version negotiation and out-of-band version negotiation
- This contribution sums up the present situation, and suggests a consistent strategy. This strategy includes both short-term clarifications in Rel4, which aim to have minimal impact on the existing specifications and which are proposed in two related CRs, and an outlook about possible improvements in future releases, which is provided for discussion only.
- DISCUSSION:** Use of the term **Fb UP** is possibly not approved by RAN3 .

△ **[ACTION N3_17_04] - Thomas will check on the use of the term Fb UP with RAN3.**

Norbert had concerns about having different solutions for different releases. Thomas clarified that the modifications for later releases will not have an impact on previous releases.

Norbert asked if RAN3 have nothing specified with Version negotiation.

Some CN3 delegates requested some more time to consider this complex solution. However as CN3 have no decision to take on this it is suggested that it be discussed by e-mail following the outcome of CN4 discussions.

Also the corresponding CRs presented in **N3-010216 and N3-010217** are simply noted as a detailed examination of the content by CN3 is probably not appropriate until the discussion paper has been examined and the principles agreed within CN4.

RESULT: The document was **DISCUSSED**.

8.5 Other Work Items for Rel-4.

No Input to this agenda item.

8.6 T.E.I for Rel-4.

No Input to this agenda item.

9 Release 5:

9.1 Interworking between IM Subsystems with IP [IMS-CCR-IWIP]

➤ CN3 consider their work to this Work Item as 20% Complete

N3-010204: **Scope and Content of 3G TS 29.162 “Interworking between the IM CN subsystem and IP networks” for Release 5.** Presented by *Johanna Wilde of Motorola*.

CONTENT: 3GPP TS 29.162 “Interworking between the IM CN subsystem and IP networks” should cover Rel-5 service requirements for the IM Subsystem and architectural requirements. The contents of 3GPP TS 29.162 “Interworking between the IM CN subsystem and IP networks” should be complete and consistent with the other of Rel-5 specifications.

The present paper proposes a set of additions to the proposed table of contents of TS 29.162 as approved in the TSG CN WG3 Meeting #16.

DISCUSSION: Question from *Nigel Holland* - Who owns the Interworking to H.323 call flows (CN3, CN1 and or SA2) and how should we progress this work? Options:-

- Send LS to CN1 and SA2 asking for them to do the work
- Send LS to CN1 and SA2 containing suggestions for the work
- Ask delegates to make contributions directly to CN1 and SA2.

It was decided to present a contribution to the CN1 joint session on 24.228 presenting the issue of the missing call flows. Nigel Holland and Johanna Wilde will work on this contribution.

RESULT: The document was **NOTED**.

N3-010205: **Proposed updates to 29.162.** Presented by *Johanna Wilde of Motorola*.

CONTENT: This document proposes changes to 29.162 to include interworking scenarios for IPv4 and IPv6 devices and networks. It also introduces a separate section for transport plane interworking.

DISCUSSION: It was noted that there are already interworking scenarios in TS 23.221 for IPv6 and IPv4 connectivity.

Nigel Holland clarified that possibly we can reference the all transport layer interworking in 23.221, and CN3 can specify only the application layer interworking scenarios in TS 29.162. *It was agreed to update the change with the separation of transport and application layer interworking scenarios.*

In 23.221 it is stated that IMS uses exclusively IPv6 therefore section 4 '*UE with SIP/IPv6 and IPv4 is not required*'. Johanna will check if this scenario is required. Nigel Holland clarified that SIP signalling is defined as IPv6 for the IMS, however the user plane signalling may also be IPv4. *Therefore it was decided to leave section 4.7 in this change to 29.162.*

It was noted that the text in 4.2.2 and 4.2.4 is identical - *Johanna clarified that the end device in 4.2.4 should be H.323 (not SIP) and will correct this type error.*

Nigel Holland and Johanna will provide an revised change incorporating the changes identified above.

RESULT: The document was **REVISED to 0226**.

⇓ **REVISED** ⇓

N3-010226: **Rev. Proposed updates to TS 29.162.** Presented by *Nigel Holland of BT*.

DISCUSSION: It was agreed to provide a clean up to date version of 29.162 that can be referenced in this meeting and also placed to the FTP DRAFT SPECIFICATIONS.

Keith Drage has clarified to Nigel that there will be no RFC number for the SIP IETF draft until December 2001 , so the referencing will remain as it is in the present document.

RESULT: The document was **REVISED to 0234**.

↓ **REVISED** ↓

N3-010234: **Clean version of TS 29.162.** Presented by *Nigel Holland of BT*.

DISCUSSION: This document will be placed to the 3GPP server [draft specs area] without the revision marks, and will be the base line specification for future changes.

△ **[ACTION N3_17_05] - David will place the draft version of 29.162 to the 3GPP server**

RESULT: The document was **AGREED**.

N3-010200: **SIP to H.323 interworking baseline standard.** Presented by *Nigel Holland of BT*.

CONTENT: The IETF have an Internet Draft "SIP-H.323 Interworking". This should be used as the reference specification for the development of the 3GPP SIP (TS 24.229) to H.323 protocol mapping, carried out within the C-IWF. TSG CN3 should use the IETF Internet Draft to check whether the Internet Draft "SIP-H.323 Interworking" fully satisfies the IM to IP network interworking requirements. This is similar to the TSG CN1's current working method for maintaining TS 24.229 "IP Multimedia Call Control Protocol based on SIP and SDP".

The document proposes text to be included in TS 29.162, which references the IETF Internet Drafts to baseline the 3GPP SIP (TS 24.229) to H.323 protocol interworking mapping.

The IETF document is also contained within N3-010200.

DISCUSSION: Johanna Wilde questioned if referencing the IETF draft will be sufficient, as the IETF document does not reflect the 3GPP SIP architecture. Nigel suggested that CN3 study the attached IETF document and make proposals on the required change.

The question of referencing draft IETF documents was raised, various solutions were proposed including pasting the whole IETF document into an ANNEX in the specification or referencing the document via an URL as done for the BICC documents.

David Sanders also questioned how 3GPP can reference Informational IETF documents and other classifications of IETF documents.

Norbert agreed to raise this issue at the CN leaders meeting and attempt to have a single solution for this across all the CN working groups.

Following the discussion in the CN leaders meeting the following guidance was provided.

- *3GPP can only refer to RFC that are in the IETF 'standard track'*
- *RFC numbers should be used in the references where available [RFC number, Title]*
- *Informative IETF documents should not be used as normative references in 3GPP*
- *It is the responsibility of the 3GPP rapporteur to follow the progress of the draft document within the IETF standard tracking process*
- *If the progress in IETF is too slow, then 3GPP may need to create their own documents and or push the work within the IETF*

Thomas mentioned that Internet drafts exist for only 6 months and then are replaced, or if there is no interest they may be deleted.

If 3GPP wish to capture these documents we may need to add them as an informative annex to our 3GPP specifications or store them on the 3GPP server and reference them as an **URL**. In both cases this is only a temporary solution until the IETF Draft becomes a RFC.

△ **[ACTION N3_17_06] - the rapporteur 29.162 will check on the status of the interworking SIP to H.323 IETF Draft and report back to CN3**

RESULT: The document was **NOTED**.

9.2 Interworking between IM Subsystems and CS [IMS-CCR-IWCS]

➤ CN3 consider their work to this Work Item as 20% Complete

N3-010185: **Proposal for ISUP to SIP interworking.** Presented by *David Sanders of Vodafone*.

CONTENT: The document introduces the principles of Control Plane interworking to TS 29.163. It introduces concepts of interworking between a CS SS7 based network and the IM CN SS. The interworking describes the interaction between the MGCF, the T-SGW and the CS SS7 node, i.e. a SEP.

DISCUSSION: Nigel Holland mentioned that reference to BCGF should be removed from section 7.2.2. this was agreed.

It was agreed to include interworking scenarios in 29.163 as have been included in 29.162.

Also there was some error in the section numbering that will be corrected in the revised version.

It was agreed to remove ANNEX A, and replace it with a reference to the IETF Draft document. The question of how to reference IETF draft documents will be raised in the leaders meeting.

David also mentioned that ITU-T SG 11 are starting work on the interworking between SIP and CS networks. CN3 and CN1 need to be aware of the potential overlap between 3GPP, IETF and ITU-T.

It was noted that several of the contributions to this meeting reference 29.062 instead of 29.162. This will be corrected in the revised documents.

RESULT: The document was **REVISED to 0227**.

⇓ **REVISED** ⇓

N3-010227: **Rev. Proposal for ISUP to SIP interworking.** Presented by *David Sanders of Vodafone*.

CONTENT: DRAFT TS 29.163 v0.1.0

DISCUSSION: Specification number is 29.163 not 29.193. Duplicate references in ref [7] and [9]. Requirement to include some change history information.

RESULT: The document was **REVISED to 0234**.

⇓ **REVISED** ⇓

N3-010243: **Rev. Proposal for ISUP to SIP interworking.** Presented by *David Sanders of Vodafone*.

CONTENT: DRAFT TS 29.163 v0.1.0

△ **[ACTION N3_17_07] - David will place the draft version of 29.163 to the 3GPP server**

RESULT: The document was **AGREED**.

N3-010199: **SIP to ISUP interworking baseline standard.** Presented by *Nigel Holland of BT*.

CONTENT: The IETF currently have an Internet Draft "ISUP to SIP Mapping". This should be used as the reference specification for the development of the 3GPP SIP (TS 24.229) to ISUP mapping, carried out within the MGCF.

TSG CN3 should then use the IETF Internet Draft to check whether the Internet Draft "ISUP to SIP Mapping" fully satisfies the IM to CS network interworking requirements. This is similar to the TSG CN1's current working method for maintaining TS 24.229 "IP Multimedia Call Control Protocol based on SIP and SDP".

DISCUSSION: It was agreed not to reference the "Informative" IETF document on 'ISUP to SIP mapping' as it will never be standardized within IETF and also it expired in November 2000.

The reference [8] draft- sip-isup-00 (November 2000): "ISUP to SIP Mapping". will be removed and replaced by an informative annex.

It is expected that the content of this annex will be developed by 3GPP (not IETF) in within TS 29.163.

The reference [7] draft-ietf-sip-rfc2543bis-02 (September 2000): "SIP: Session Initiation Protocol" will be inserted into 29.163 as it is shown in this document.

RESULT: The document was **NOTED**.

N3-010201: IM CN subsystem and CS - Proposed Update to Reference Model to include BGCF.
Presented by *Nigel Holland of BT*.

CONTENT: Currently the reference architecture used in TS 29.163 does not contain the Breakout Gateway Control Function - BGCF. The BGCF selects the network in which PSTN breakout is to occur, and is detailed further in TS 23.228v5.0.0.

This contribution updates the reference architecture in TS 29.163 to include the BGCF.

Also, the "ISUP CC over SS7" label has been changed to reflect the comment received at the last CN3#16 meeting, which highlighted a correction to the first draft of TS 29.163 (tdoc N3-010131).

DISCUSSION: It was agreed to add 'SIP' to the appropriate interfaces on the Figure. David Sanders will incorporate this change in his contribution N3-010227.

RESULT: The changes contained in this document were **AGREED**.

N3-010210: IM CN subsystem and PS - Proposed Update to Reference Model to include BGCF.
Presented by *Nigel Holland of BT*.

CONTENT: The document proposes the inclusion of text in TS 29.163, which: -

- Cleans up the Control Plane and User Plane sections (6.2.and 6.3)
- Introduces the User Plane Interworking function (MGW) and the AMR to G.711 transcoding protocol stack, and adds a reference to ITU G.711 specification, in order to meet the stage 2 IM CN subsystem requirement.

DISCUSSION: There was some discussion on the proposed protocol stack regarding the lu User plane. This needs to be studied further and the figure will be left in the change, but clearly marked as '*presently incorrect - for further study*'

Johanna Wilde suggested having an end-to-end user protocol stack available to help with the discussion on where each protocols are terminated. it is not the intention to include this in 29.163. It was agreed that such discussion information will be brought to future cn3 meetings.

The proposed changes will also be included in N3-010227

RESULT: The changes contained in this document were **AGREED**.

9.3 QoS for IMS

➤ CN3 consider their work to this Work Item as 0% Complete

N3-010182: Proposed QoS stage 3 work distribution among CN3 work items. Presented by *Daisuke Yokota of Lucent*.

CONTENT: This document proposes a possible QoS stage 3 work distribution among CN3 work items.

DISCUSSION: Hans-Peter Schwefel mentioned that this work item break down may need to be further examined following the discussions with SA2. There is a requirement to examine end to end QoS as opposed to simply QoS for interworking to fixed networks.

It was noted that charging aspects also need to be considered although this work will possibly be covered outside of CN3.

Norbert mentioned that he would be prefer to have a **single** WID that covers all work within CN for QoS listing the effects on existing specifications.

It was agreed by CN3 to introduce changes into existing specifications (29.162 and 29.163) but not re-use existing WIDs. A single WID will be created for all QoS work within CN.

RESULT: The document was **NOTED**.

N3-010183: **Proposed work item description sheet for QoS Management** Presented by *Daisuke Yokota of Lucent*.

CONTENT: This document proposes the work item description sheet for QoS Management.

DISCUSSION: As CN3 have decided to have a single WID to cover all QoS issues, this document must be modified to include the interworking related.

Also 29.162 and 29.163 will be impacted by this WID (to be added).

Motorola, BT, Vodafone, Nokia and Siemens added their support for this work item (including the broader scope).

An editing session was organized in the evening to propose the appropriate changes into this WID.

RESULT: The document was **REVISED to 0228**.

⇓ **REVISED** ⇓

N3-010228: **REV. Proposed work item description sheet for end to end QoS**. Presented by *Daisuke Yokota of Lucent*.

CONTENT: This document proposes the updated work item description sheet for end to end QoS.

DISCUSSION: It was agreed to add 27.060 and 29.060 to the list of affected specifications.

This CN3 WID covers all of work that is required for end to end QoS to be performed within TSG_CN and its working groups. It is expected that SA2 will coordinated the work between CN and the other TSGs.

Hans-Peter Schwefel suggested some clearer text for section 4 Objectives.

Also it was agreed that there more text was required for the work in addition to the Gi interface. The term '*various interfaces*' was used to replace the more specific '*Gi interface*'.

There were also some minor editorial changes made on-line.

Source was changed to CN3 before presentation to the joint SA2 session on QoS.

RESULT: The document was **REVISED to 0235**.

⇓ **REVISED** ⇓

N3-010235: **REV. Proposed work item description sheet for end to end QoS**. Presented by *Daisuke Yokota of Lucent*.

DISCUSSION: This was handled under Agenda item 10.1 Joint session with SA2 on QoS

N3-010184: **Proposal on the scope of a new technical specification 29.cde for QoS Management**. Presented by *Daisuke Yokota of Lucent*.

CONTENT: CN3 has to work on the QoS Management and thus has to produce a new technical specification 29.cde to cover the work. This document proposes the scope of TS 29.cde to be produced.

DISCUSSION: CN3 decided on a TS number of 29.207 for this new specification (to be confirmed by MCC specification manager).

△ **[ACTION N3_17_08] - DAVID will request the TS number 29.207 for the new end to end QoS specification**

Nigel Holland stated that the Gi interface should be covered in 29.061. However Norbert warned that 29.061 is presently only for GPRS and there may be some modifications required to include IMS issues.

There was support for this specification to be created and to allocated the TS number 29.207. *Daisuke Yokota of Lucent* offered to be the rapporteur for this new specification.

29.162 and 29.163 will incorporated the QoS issues for interworking between the IMS and the PS and CS networks

This new specification will exist alongside 29.162 and 29.163, and will have the scope of end to end QoS management.

The title of this new specification will be determined once the new WID is discussed.

RESULT: The document was **NOTED**.

9.4 Other Rel-5 Work Items

No Input to this agenda item.

10 Joint SA2_CN3 and others Joint Meeting on QoS

10.1 Joint SA2/CN3 Meeting on QoS

Objective of this Joint meeting:

- *To enable the CN working groups to start the stage 3 work on QoS.*
- *Define the work split for End to End QoS*

N3-010245 [S2-011052] TS23.207v1.6.0 presentation to CN3 & CN4. Presented by *Johnson Oyama* of *Ericsson*.

CONTENT: This document contains a slideshow presentation that describes the current status on TS 23.021.

The document contains information about:-

- TS23.207 v1.6.0 content and structure
- QoS Management Functions in the Network (describing the new elements required for QoS management in Rel-5)
- Capabilities of Functional Elements
- Go interface (PCF-GGSN)
- Session Flow: QoS Interaction Procedures

DISCUSSION: It was stated before the presentation that parts of this document will be used as input to the IETF-3GPP meeting in May 2001. They were identified on a slide by slide basis and will be compiled into a presentation to be given to the IETF IPV6 meeting. The final document will be sent out on the SA2 email exploder for information/comments.

Comments following the presentation:-

Stephen Hayes mentioned that there are many options presented in this document, and asked if there is any intention to limit them. *Oscar Lopez Torres* clarified that a number of call flow options have been requested by the operators and it is not known / expected that all options will be implemented.

Robert Chan commented the statement in slide 6 "*logical entity that is **co-located** with the P-CSCF*". This is presently not standardized in TS 23.228 and or TS 23.207.

Stephen Hayes asked what CN are expected to do? Does it include the behaviour of the P-CSCF?

It was confirmed that this includes :-

- BS manager,
- Policy Control Function
- Go interface

SA2 has recommended that the COPS protocol be used via the Go interface. Although CN is responsible for the development of protocols, it will use COPS as the first step and also examine alternatives.

Johnson clarified that without **service based local policy** there is no purpose for the Go interface.

RSVP is taken as an end to end Quality mechanism. It is independent of binding even though RSVP messages can be to carry 3GPP specific binding information.

Binding information (token flow identifiers) can also be piggybacked on other session management protocols.

Sunil - What are the requirements on end to end transfer delay for speech calls? *Johnson* - This is open and still under study in SA2 - there are presently no ceilings defined only service classes.

Sunil - Why is RSVP used in the mobile and GGSN? *Johnson* - RSVP is optional and we must allow for the eventuality that the mobile UE (e.g. laptop) use RSVP.

Sunil - there are many options presented for RSVP, but what work is mandated and essential. Can SA2 provide some indication of priority? *Johnson* - CN can start with looking at binding in GGSN, proxy, and timing dependencies.

SA2 has not defined the mapping as this is clearly the responsibility of Stage 3 within CN.

Mapping requirements will be required in 3 nodes:-

- PCF
- UE
- GGSN

Hans-Peter Schwefel asked how we will achieve the QoS requirements, with what mechanisms?

SA2 has assumed that IETF DIFFSERV will be used in the backbone network. Also it was clarified that CN3 have to provide mechanisms to signal to the operators the network requirements to guarantee QoS.

RESULT: The document was **DISCUSSED**.

N3-010238: **TS 23.207v1.6.0.** Presented by *Johnson Oyama of Ericsson*.

CONTENT: Contains the latest version of TS 23.207v1.6.0

DISCUSSION: TS 23.207v1.6.0 has not yet been seen/approved by SA2. It is intended to have this as v2.0.0 at the end of this week. SA2 plenary will decide when this is to be presented to SA plenary to be approved as v5.0.0 and therefore can be considered as stable. SA2 QoS group consider this TS to be stable enough to be raised to v5.0.0 at SA#12, (although this must be agreed by SA2).

RESULT: The document was **NOTED**.

N3-010236: **Work Item Description for Release 5: End to End QoS Concept and Architecture for PS Domain (including IM subsystem) [WI for Building Block].** Presented by *Bonnie Chen of Motorola*.

CONTENT: Contains the SA2 WID for End to End QoS Concept and Architecture for PS Domain for Rel-5. This WID provides a basis for the restructuring of the QoS for Rel-5 in the 3GPP project plan. It is proposed to present this WID to the SA2 closing plenary for approval.

DISCUSSION: *Nigel Berry* mentioned that there is a large amount of overlap between this SA2 WID and the CN3 WID and although overlap can be tolerated we need to check that there is no conflicting content.

Also this WID identifies multiple CN WIDs although CN3 intend to have a single WID for all CN WG tasks.

Noted that the Linked Work Item section 2 is missing. The CN WI as well as the others (SA1 etc) will be added.

The term '*Packet Switch domain*' is considered global by CN3 who prefers the term '*Packet Switch domain as requested by the IM subsystem*'. This will be changed in both the SA2 and CN3 WIDs.

Charging and Security Aspects need to be identified in this WID. Bonnie will add text from the CN3 WID.

Impacts on USIM have not yet been identified hence 'don't know' needs to be shown on the WID.

RESULT: The document was **REVISED**.

N3-010235: **Proposed CN3 work item description sheet for end to end QoS.** Presented by *Daisuke Yokota of Lucent.*

DISCUSSION: Requirement to add 24.229 [CN1] specification

Also mapping will be made in several nodes, and this needs to be incorporated in this WID.

It was agreed that Core network to UE QoS negotiation should be done within CN and the results informed to TSG T WG2.

It was mentioned that the Gi interface can be used in server placed and is too generic and should be replaced with more specific terms in section 4.

QoS information element is also defined in 24.008 and this specification needs to be added to the list of affected specifications.

It was mentioned that we need to define a specific client type for COPS UMTS objects

Hans-Peter Schwefel asked how much end to end work and how much interface work needs to be done by CN3.

CN3 will start work to 24.228 and 29.207. Work is also require to TS 23.207 (by SA2).

This will be sent out for email approval to CN3 and SA2 email exploders for the attention of SA2 QoS.

RESULT: The document was **REVISED to 0247.**

N3-010247: **Proposed CN3 work item description sheet for end to end QoS.** Presented by *Daisuke Yokota of Lucent.*

DISCUSSION: To be sent out on CN3 and SA2 email exploders for comments / approval.

RESULT: The document was sent out on **E-mail exploder for approval until 6th June.**

N3-010246: **LS on End to End QoS Concept and Architecture for PS Domain.**

CONTENT: Contains an LS that presents the SA2 WID on End to End QoS Concept and Architecture for PS Domain.

RESULT: The document was **NOTED.**

10.2 Joint Session with CN1 on 23.218

N1-010504 : SA2 (S2-010798r2), Type: LS IN , Title: Liaison Statement on IMS-Service Provision

Discussion : Forwarded to this joint session from CN1#17, so for CN1 comments see also this doc. in chapter 3. Besides agreeing the Cx interface SA2 agreed on a single standardised protocol to be supported by the S-CSCF for service control. Guidelines for further details are summarised in a new chapter to 23.228. These details are given in S2-010797 which is approved by S2 and not attached to this LS.

These new requirements are not contributed to this meeting, so no drafting based on this can be done in CN1 now. But the protocol architectural requirements will be discussed in the S2/N1-4 meeting later this week.

Where is IMS SCF documented? In chapter 6 of 23.218. Mapping between ISC (IM Service Control) standardized protocol (or SIP+) to CAMEL was proposed to be documented in CN2 specifications. But further work needs to be decided upon when more information is available around these topics. Lot of support to change the confusing SIP+ to a recommendation on name and communicate it to SA2, but SA2 will make that decision and design the needed architecture. A liaison to SA2 is agreed to be sent, and additional clarification to the name could be that this is related to the protocol only.

Additionally it was agreed that the structure of 23.218 should be reviewed and any proposals to change the current structure should be provided in the form of written contributions to the CN joint meeting during CN1 #18.

Conclusion: LS OUT in 888 by Magnus

N1-010749 : 23.218, Lucent, Type: CR, Title: Service Triggers in SIP telephony network

Discussion : This contribution gives some generic points of interests, at which the S-CSCF will interact with service platform during the session.

Received as a good starting point. The granularity of triggers are too big, and some other triggers as eg PRACK could be of interest to the service as well. Break up response to classes were also asked for. More generic description is needed in order to avoid modification for every protocol modification. Also registration related responses should be looked at. Another way of handling this is by filtering. It was proposed to move it into an informative annex. Another proposal was introduction to chapter 5 directly.

Conclusion: Agreed to put this in as informative annex

N1-010761 : 23.218, Motorola, Type: CR , Title: Modification to scope of TS 23.218

Discussion : A proposal to change the scope so that 23.218 should focus on the Interactions between the S-CSCF and Application Servers (IM_SSF, OSA SCS and SIP Application Servers), and the Mappings and Call Models contained in these entities should not contain the functional requirements for Proxy-CSCF, Interrogating-CSCF and Serving-CSCF for basic call/session handling which would be best specified in TS 24.229.

IMS in 23.218 (covering the S-CSCF only) was earlier intended as an analogue to basic call handling in 23.018 and opinions were raised to keep it that way. A new document to handle the service issues, or make 23.218 more service oriented ? Not recommended moving something to the protocol part,-24.229. But if so, then it should preferably be done before taking it to plenary CN#13 for issuing v1.0.0. At least section 5 of 23.218 could be modified to remove P-CSCF and I-CSCF functionality.

Conclusion : **Noted**

N1-010762 : 23.218, Motorola, Type: INFO , Title: TS 23.218 v.0.5.0

Discussion : Latest available version. No changes has been done yet since the April meeting in Sophia. The work is in progress and the architecture is being modified.

Conclusion : **Noted**

10.3 Joint Session with CN1 on 24.228

N1-010702 : 24.228, ATT, Lucent, Motorola, Type: CR, Title: Move Annex A to Normative text

Discussion : Please see also 702 under 8.4 since this was a forwarded document from CN1 earlier this week.

TS 24.228 is intended to be input to plenary CN#12 for approval to v1.0.0

Conclusion : **Agreed to move annex A to main part except for clause 100 and 101**

N1-010706 : 24.228, ATT, Type: CR, Title: Call Transfer Procedures

Discussion : It is proposed that the proposed text be added to an informative Annex (TS 24.228 Annex B) as preliminary material for section 10.5. In addition, the following IETF Internet-Drafts is proposed added to the Work Item Description as IETF dependencies:

- Draft-ietf-sip-cc-transfer-04
- Draft-roach-sip-subscribe-notify-03

An alternative architecture to this where all parties are involved, would be that S-CSCF terminates the REFER and does not impact the first leg, transport (network centric). This was contradicted since UE#1 needs to know about the media, a human centric approach. What about privacy on UE#3 and who pays for the transferred leg ? Service control boxes should be shown in the flows. Why do we have 2 scenarios here ? Reason is that eg. REFER is different. Call transfer is a basis for fraud and this document must be reviewed by SA3 before going into the informative annex. 23.228 already has a section on call transfer and therefore a LS should be sent to affected groups,- to S3 with copy to S2 and possibly S5.

Conclusion : **Agreed to be put in the annex and not the main body of the TS. LS OUT in 890 by Sunil**

N1-010733 : 24.228, Lucent, Type: CR , Title: More service control tasks in 24.228

Discussion : In this contribution, the positions where the service control boxes shall be inserted when 180 Ringing, COMET and 486 BUSY messages are met in S-CSCF are indicated in the list.

Ringing is optional, and adding a service control box in every possible flow and message could more efficiently be made through some text. This list was intended as editing rule for the 24.228 update.

Conclusion : **Revised to 891 for CN1 during this week (see agenda item 8.4)**

N1-010746 : Lucent, Type: DISCUSSION, Title: An analysis of the requirements for the Max-Forwards header

Discussion : This contribution discusses the handling of ICMP messages by SIP. The contribution concludes that -due to security reasons - the ICMP messages should be ignored by the 3GPP SIP implementations. It is proposed that CN1 sends a liaison statement to the SA3 requesting a clarification pertaining to handling of the ICMP messages in 3GPP SIP implementations.

Both support and not were raised for a liaison doc. This could instead be seen as an implementation issue. The solution should be sought in the routers themselves. A statement of ignoring ICMP is too restrictive. ICMPs from an insecure source could be ignored.

Conclusion : **LS OUT in 892 by Milo**

N1-010756 : 24.228 Motorola, Type: INFO, Title: 24.228v050 "Signalling flows for the IP multimedia call control based on SIP and SDP"

Discussion : Latest version available, also stored on the 3GPP server under specs/latest draft

Conclusion : **Noted**

N1-010852 : 24.228, Lucent, Type: CR, Title: Signalling flow for session release

Discussion :

Conclusion : **Forwarded to CN1 during the week in 884**

N1-010865 : 24.228, Motorola, Type: CR, Title: SIP/SDP compression

Discussion : The number of messages coupled with the typical length of a SIP message places a strenuous burden on bandwidth over the air interface, which remains a scarce and expensive resource. It is proposed that CN1 agree that compression of SIP/SDP messages is required in the Rel-5 IM subsystem architecture over the air interface, and that CN1 should investigate the merits of both text compression and SIP/SDP aware compression schemes.

SA2 still needs to agree on the schemes and where to compress. Building an efficient dictionary are depending on the amount of messages exchanged. The architecture is a way of reducing amount of messages. S-CSCF could limit the number of messages over the radio interface (in case of forked requests) or all messages could be compressed or both. Possibility of compression seems to be reduced since SA3 has an optional security feature between UE and P-CSCF. Should SA4 be involved? If the compression is made in RAN it will appear in the 25 series, and additionally handover aspects need to be handled. A question is if CN1 is a proper place for further contributions ? The working group on algorithm(s) will be dictated with the architectural decisions to be done. In IETF the ROCH group may be taking this up, but 3GPP can not wait for that. This doc is forwarded to CN1 on Friday after the document has been presented in SA2.

Conclusion : Noted. Forwarded to CN1 later this week (see agenda item 8.4)

N1-010881 : From SIP#04 (N1-010582), Type: LS IN, Title: LS "on GPRS work covering break in radio transmission"

Discussion : The joint meeting of SA2 and CN1 identified the following item within 23.228 (see extract under 3 in this liaison) which requires enhancement of a number of GPRS specifications under the control of various working groups. Since CN4 delegates are not all present a request to forward this to CN4 was accepted.

Conclusion : Noted. Forwarded to CN4

11 Output of CN3#17 Meeting

11.1 Work Items

TDoc #	Tdoc Title	Status
N3-0100247	End-to-end QoS	e-mail approval

11.2 Liaison Statements

The following Liaison Statements were agreed to be sent by CN3:

TDoc #	Tdoc Title	LS to	LS cc	LS	Sent
N3-010229	Protocol Stack for an IP based lu-cs "	RAN3	SA2 , CN4	N3-000574	17-05-01

11.3 Change Requests

The following CRs were agreed by CN3, and are to be sent to the TSG-CN#12 Plenary for Approval:

TDoc #	Spec	Tdoc Title	Rel	CR #	CAT	Rev	C_Ver	N_Ver	WI
N3-010231	23.910	Connection models for CSD and editorial changes.	R99	029	F		3.4.0	3.5.0	CS Data Bearers
N3-010220	23.910	Connection models for CSD and editorial changes.	Rel-4	030	A		4.2.0	4.3.0	CS Data Bearers
N3-010232	27.001	Corrections of PLMN BC attributes	R99	059	F		3.8.0	3.9.0	CS Data Bearers
N3-010233	27.001	Corrections of PLMN BC attributes	Rel-4	060	A		4.3.0	4.4.0	CS Data Bearers
N3-010240	29.061	Clarifications on the non-transparent access mode"	R99	017	F		3.5.0	3.6.0	GPRS
N3-010242	29.061	Clarifications on the non-transparent access mode"	Rel-4	018	A		4.0.0	4.1.0	GPRS
N3-010239	29.061	Set the use of PPP between the MT and TE as an option when interworking with MIPv4	R99	019	F		3.5.0	3.6.0	GPRS
N3-010241	29.061	Set the use of PPP between the MT and TE as an option when interworking with MIPv4	Rel-4	020	A		4.0.0	4.1.0	GPRS
N3-010198	29.414	Editorial Clarifications in 29.414 and IANA registration	Rel-4	001	F		4.0.0	4.1.0	CSSPLIT

11.4 New TRs / TSs

TDoc #	Number	Owner	C-Ver	Rel	Title	Rapporteur	Company
N3-010234	29.162	CN3	0.1.0	Rel-5	Interworking between the IM CN subsystem and IP networks	Nigel Holland	BT
N3-010243	29.163	CN3	0.1.0	Rel-5	Interworking between the IM CN subsystem and CS networks	David Sanders	Vodafone

11.5 Other

TDoc #	Tdoc Title	Notes

11.6 Summary of CN3#17 Action Points

Includes all open action from previous meetings

ACTION NUMBER	OWNER	DESCRIPTION	TARGET DATE	NOTES	STATUS
N3_16_04	All	Check removal of interworking between IMS and CS networks for CS multimedia services on 24.228 as result of LS in N3-010116	before CN3#17		OPEN
N3_17_01	David, MCC	inform the rapporteur of 23.002 of the mismatch in references related to 23.054	before CN3#18		DONE
N3_17_02	David, MCC	feed back the changes in cn3 specifications list to the 3GPP specifications manager	before CN3#18		DONE
N3_17_03	David, MCC	feed back the changes to the 3GPP project plan to Alain Sultan	before CN3#18		DONE
N3_17_04	Thomas, Belling	check on the use of the term Fb UP with RAN3	before CN3#18		OPEN
N3_17_05	David, MCC	place the draft version of 29.162 to the 3GPP server	before CN3#18		DONE
N3_17_06	rapporteur 29.162	check on the status of the interworking SIP to H.323 IETF Draft and report back to CN3	before CN3#18		OPEN
N3_17_07	David, MCC	place the draft version of 29.163 to the 3GPP server	before CN3#18		DONE
N3_17_08	David, MCC	request the TS number 29.207 for the new end to end QoS specification	before CN3#18		DONE

12 Any other business

There was a comment from Norbert on behalf of Siemens requesting that future meetings host chose meeting locations where there is GSM coverage if the meeting takes place in a country with GSM operator.

13 Close of meeting

Norbert closed the 17th CN3 meeting on Thursday 17th May at 19:00, and thanked the host for the excellent meeting location and arrangements.

He also thanked the CN3 delegates and David the CN3 MCC support for their active participation in the meeting.

Annex A: List of CN3 Meeting Participants

The following delegates attended the CN3#17 meeting.

Name	Company	Status	Telephone	e-mail
Dr. Hans-Peter Schwefel	SIEMENS AG	3GPPMEMBER (ETSI)	+49 89 722-59890	Hans.Schwefel@icn.siemens.de
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Annex B: List of documents

Details can also be found in the file *N3_17_Tdoc_list.xls* on the meeting server.

TDoc #	Ag.	Type	Tdoc Title	CR #	CAT	Spec	Rel	Status
N3-010175	2	AGENDA	AGENDA FOR CN3#17 MEETING					APPROVED
N3-010176	3	Tdoc ALLOC	Allocation of Tdocs to Agenda Items					APPROVED
N3-010177	4.1	REPORT	Draft Meeting Report from CN3#16					REVISED TO 0212
N3-010178	4.2	REPORT	Draft Meeting Report from CN#11					NOTED
N3-010179	4.2	REPORT	Draft Meeting Report from SA#11					NOTED
N3-010180	4.2	REPORT	Status Report of CN3 to CN#11					NOTED
N3-010181	4.2	REPORT	Presentation Slides of CN Chairman to SA#11					NOTED
N3-010182	9.3	DISCUSSION DOC	Proposed QoS stage 3 work distribution among CN3 work items				Rel-5	NOTED
N3-010183	9.3	WID	Proposed work item description sheet for QoS Management				Rel-5	REVISED TO 0228
N3-010184	9.3	DISCUSSION DOC	Proposal on the scope of a new technical specification 29.cde for QoS Management				Rel-5	NOTED
N3-010185	9.2	DISCUSSION DOC	Proposal for ISUP to SIP interworking				Rel-5	REVISED TO 0227
N3-010186	4.2	REPORT	Advice to CN3 following NP#11					NOTED
N3-010187	8.4	LS IN	Protocol Stack for IP based Lu-cs [R3-011301]					NOTED
N3-010188	5	LS IN	Re. Working Assumptions for 29.415 [R3-011090]					NOTED
N3-010189	5	LS IN	Basic and Advanced Service Examples [S1-010271]					NOTED
N3-010190	6.1	LIST	Status of CN3 Specifications following CN#11					REVISED TO 0219
N3-010191	6.1	WORK PLAN	Latest Version of 3GPP Work Plan					NOTED
N3-010192	7.3	CR	Set the use of PPP between the MT and TE as an option when interworking with MIPv4		F	29.061	R99	REVISED TO 0224
N3-010193	7.3	CR	Clarifications on the non-transparent access mode"		F	29.061	R99	REVISED TO 0225
N3-010194	7.1	CR	Essential Correction			27.001	R99	REVISED TO 0222
N3-010195	7.1	CR	Essential Correction			27.001	Rel-4	REVISED TO 0223
N3-010196	7.1	CR	Connection models for T-CSD and editorial changes.		C	23.910	R99	REVISED TO 0220
N3-010197	8.4	DISCUSSION DOC	MIME Registration of lu UP			29.414	Rel-4	REVISED TO 0218
N3-010198	8.4	CR	Editorial Clarifications in 29.414 and IANA registration		F	29.414	Rel-4	AGREED
N3-010199	9.2	DISCUSSION DOC	SIP to ISUP Interworking baseline standard				Rel-5	NOTED
N3-010200	9.1	DISCUSSION DOC	SIP to H.323 Interworking baseline standard				Rel-5	NOTED
N3-010201	9.2	DISCUSSION DOC	IM CN subsystem and CS - Proposed Update to Reference Model to include BGCF				Rel-5	AGREED
N3-010202	8.4	DISCUSSION DOC	RTP versus GTP usage on Nb (and lu)					NOTED

TDoc #	Ag.	Type	Tdoc Title	CR #	CAT	Spec	Rel	Status
N3-010203	8.4	LS OUT	[DRAFT] LS on " Protocol Stack for an IP based lu-cs "					REVISED TO 0229
N3-010204	9.1	DISCUSSION DOC	Scope and content of TS 29.162 for Release 5			29.162	Rel-5	NOTED
N3-010205	9.1	CR	Proposed update to TS 29.162 table of contents			29.162	Rel-5	REVISED TO 0226
N3-010206	5	LS IN	IMS Service Provision [S2-010798]					NOTED
N3-010207	5	LS IN	Deletion of Work Items [NP-010211]					NOTED
N3-010208	5	LS IN	Re. Optimised IP speech and header removal support in GERAN [R3-010890]					NOTED
N3-010209	5	LS IN	GPRS work covering break in radio transmission [N1-010582]					NOTED
N3-010210	9.2	DISCUSSION DOC	IM CN subsystem and CS User Plane Interworking				Rel-5	AGREED
N3-010211	3	Tdoc ALLOC	Updated Allocation of Tdocs to Agenda Items					NOTED
N3-010212	4.1	REPORT	Draft Meeting Report from CN3#16					APPROVED
N3-010213	8.4	[CR]	Clarifications in 3GUP package	023	F	23.153	Rel-4	NOTED
N3-010214	8.4	[CR]	Clarifications in 3GUP package	006	F	29.232	Rel4	NOTED
N3-010215	8.4	DISCUSSION DOC	Relationship of Inband lu FP version negotiation and out of band signalling					DISCUSSED
N3-010216	8.4	[CR]	Clarification of Use of UP version property in 3GUP package	024	F	23.153	Rel-4	NOTED
N3-010217	8.4	[CR]	Role of MSC server in FP UP version negotiation for TrFO.	007	F	29.232	Rel4	NOTED
N3-010218	8.4	DISCUSSION DOC	MIME Registration of lu UP			29.414	Rel-4	NOTED
N3-010219	6.1	LIST	Status of CN3 Specifications following CN#11					NOTED
N3-010220	7.1	CR	Connection models for T-CSD and editorial changes.		A	23.910	Rel-4	AGREED
N3-010221	7.1	CR	Connection models for T-CSD and editorial changes.		F	23.910	R99	REVISED TO 0231
N3-010222	7.1	CR	Corrections of PLMN BC attributes		F	27.001	R99	REVISED TO 0232
N3-010223	7.1	CR	Corrections of PLMN BC attributes		A	27.001	Rel-4	REVISED TO 0233
N3-010224	7.3	CR	Set the use of PPP between the MT and TE as an option when interworking with MIPv4		F	29.061	R99	REVISED TO 0239
N3-010225	7.3	CR	Clarifications on the non-transparent access mode"		F	29.061	R99	REVISED TO 0240
N3-010226	9.1	CR	Proposed update to TS 29.062 table of contents			29.162	Rel-5	REVISED TO 0234
N3-010227	9.2	DISCUSSION DOC	Proposal for ISUP to SIP interworking			29.163	Rel-5	REVISED TO 0243
N3-010228	9.3	WID	Proposed work item description sheet for end to end QoS				Rel-5	REVISED TO 0235
N3-010229	8.4	LS OUT	LS on " Protocol Stack for an IP based lu-cs "					APPROVED
N3-010230	6.3	CALENDAR	CALENDAR of MEETING DATES for 2002					NOTED
N3-010231	7.1	CR	Connection models for T-CSD and editorial changes.		F	23.910	R99	AGREED
N3-010232	7.1	CR	Corrections of PLMN BC attributes		F	27.001	R99	AGREED
N3-010233	7.1	CR	Corrections of PLMN BC attributes		A	27.001	Rel-4	AGREED

TDoc #	Ag.	Type	Tdoc Title	CR #	CAT	Spec	Rel	Status
N3-010234	9.1	TS	Clean version of TS 29.162			29.162	Rel-5	AGREED
N3-010235	10.1	WID	Proposed work item description sheet for end to end QoS				Rel-5	REVISED TO 0247
N3-010236	10.1	WID	Work Item Description for Release 5: End to End QoS Concept and Architecture for PS Domain (including IM subsystem) [WI for Building Block]					DISCUSSED
N3-010237	10.1	DISCUSSION DOC	TS23.207v1.6.0 presentation to CN3 & CN4					WITHDRAWN
N3-010238	10.1	TS	TS 23.207 Version 1.6.0			23.207	Rel-5	NOTED
N3-010239	7.3	CR	Set the use of PPP between the MT and TE as an option when interworking with MIPv4		F	29.061	R99	AGREED
N3-010240	7.3	CR	Clarifications on the non-transparent access mode"		F	29.061	R99	AGREED
N3-010241	7.3	CR	Set the use of PPP between the MT and TE as an option when interworking with MIPv4		A	29.061	Rel-4	AGREED
N3-010242	7.3	CR	Clarifications on the non-transparent access mode"		A	29.061	Rel-4	AGREED
N3-010243	9.2	DISCUSSION DOC	Proposal for ISUP to SIP interworking			29.163	Rel-5	AGREED
N3-010244		DISCUSSION DOC	Discussion On Framing Protocol Indication In BICC					WITHDRAWN
N3-010245	10.1	DISCUSSION DOC	TS23.207v1.6.0 presentation to CN3 & CN4					DISCUSSED
N3-010246	10.1	LS IN	WI on the End-to-End QoS Architecture for Release 5					NOTED
N3-010247	10.1	WID	Proposed work item description sheet for end to end QoS				Rel-5	DISCUSSED
N3-010248								
N3-010249								
N3-010250								

Annex C: Access to 3GPP documents

This document briefly outlines some of the more important locations of information that all TSG_CN WG3 members should be aware of.

3GPP email lists:

To receive information about CN3 issues, all delegates and other interested parties **MUST** register for email list **3GPP_TSG_CN_WG3**. This can be done by sending an email to LISTSERV@LIST.3GPP.ORG with the following single line of text in the body of the message:

subscribe 3GPP_TSG_CN_WG3 YourFirstName YourLastName

There are many other 3GPP email lists that may also be of interest. Go to <http://www.3gpp.org/e-mail.htm> for further information.

If at any time you would like to confirm which lists you are currently a member of, just send a message to LISTSERV@LIST.3GPP.ORG with the following single line of text in the body of the message:

QUERY *

Email archives:

All 3GPP lists have an associated archive of every email sent via that list. Information on how to access the archive is sent to you when you subscribe to the list. This means that if you have temporary email problems, or have just joined the group, you can check to see if you have missed any messages. The easiest way to search the archive is first to request a list of all messages sent to the particular group you are interested in. For example, to get a list of messages sent via the **3GPP_TSG_CN_WG3** list between 1st Jan 1999 and the current date, send the following command to LISTSERV@LIST.3GPP.ORG:

search * in 3GPP_TSG_CN_WG3 since Jan 1999

As well as a list of emails sent, you receive instructions about how to retrieve the emails.

Some 3GPP archives are also available via a new user-friendly WWW interface. For CN3, go to:

http://list.3gpp.org/archives/3gpp_tsg_cn_wg3.html

Meeting calendar:

The central location for all information relating to the 3GPP meeting calendar and the corresponding meeting invitations can be found at: <http://www.3gpp.org/Meetings.htm>

Documents on the server:

All documents submitted to CN3 meetings will be made available on the 3GPP document server in a directory (related to the number of the meeting) under: ftp://ftp.3gpp.org/TSG_CN/WG3/

e.g. the documents for CN3 meeting #8 can be found at:

ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_08/Tdocs/

History

Document History	
18 th May 2001	Draft v1.0.0 distributed to CN3 chairman for comments
23 rd May 2001	<p>DRAFT v1.1.0 dispatched by e-mail exploder to the CN3 list.</p> <p>Comments, if any, to be addressed to:</p> <p style="padding-left: 40px;">David Boswarthick, 3GPP TSG-CN3 Support MCC - ETSI Secretariat Tel :+33 (0)4 92 94 42 78 e-mail: <i> david.boswarthick@ETSI.fr</i></p> <p>A deadline of 2 weeks was given to the CN3 delegates for e-mail comments on the draft report.</p> <p style="text-align: center;">Comments back by 7th June 2001</p>
7 th June 2001	Updated DRAFT v2.0.0 placed to the server
26 th July 2001	N3-010xyz[v2.0.0] VARIOUS comments made by CN3 at the beginning of CN3#14 meeting. Updated to N3-000xyz and placed to the server as v3.0.0.